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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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	(PCT Article 36 and Rule 70)
Applicant's or agent's file reference 15907/PCT-/Vu	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41)
International application No. PCT/EP2003/009228	International filing date (day/month/year) Priority date (day/month/year) 20 August 2003 (20.08.2003) 21 August 2002 (21.08.2002)
International Patent Classification (IPC) or r A61N 1/30	national classification and IPC
Applicant	VIASYS HEALTHCARE GMBH
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International application No.

PCT/EP2003/009228

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in	This rep	the description, pages the claims, Nos the drawings, sheets/fig tort has been established as if (some of) the amendments had not been made, the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** The else which have been furnished to the receiving Office in response to an inverse of the control of the co	vitation under Article 14 are referred t			
** An	y replacem	ent sheet containing such amendments must be referred to under item 1 and ar	nnexed to this report.			

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YES

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-11	YES			
		Claims		NO NO			
	Inventive step (IS)	Claims	1-11	YES			
		Claims		NO			
		Claima	1-11	VES			

2. Citations and explanations

Industrial applicability (IA)

1. Reference is made to the following document: D1: EP-A-0 571 712 (ADVANCE KK) 1 December 1993 (1993-12-01)

Claims

Claims

2. Document D1 is considered the prior art closest to the subject matter of claim 1. It discloses (the references in parentheses are to D1):

an array of measuring electrodes for electro-impedance tomography with at least one electrode (electrode 3, figure 1) for electrically contacting an object, characterized in that a storage space (space 7, figure 1) is provided on the side of the electrode facing away from said object, said space containing a contacting agent for reducing the electrical contact resistance between the electrode and the object, the electrode being permeable to said contacting agent (abstract).

The subject matter of claim 1 thus differs from the known document D1 in that the electrode according to D1 is well-suited for iontophoresis, whereas the electrode according to claim 1 is well-suited for electroimpedance tomography.

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The electrode according to claim 1 is furthermore characterized in that the ions can diffuse through the measuring electrode, while the measuring electrode is impermeable to the fluid used as a solvent.

Therefore, the subject matter of claim 1 is novel (PCT Article 33(2)).

3. The problem to be solved by the present invention can thus be seen as that of producing an array of measuring electrodes that is well-suited for electro-impedance tomography and that permits the best possible electrical contacting of the measurement object. The electrode array offers the additional advantage that its design makes it impossible for an excessive amount of contact fluid to be discharged from the storage container.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons: the measuring electrode forms a semi-permeable membrane that is permeable only to the ions dissolved in the contact fluid, the contact fluid itself being retained.

- 4. The same applies mutatis mutandis to claim 11, which is thus also novel and inventive.
- 5. Claims 2-10 are dependent upon claim 1 and thus likewise satisfy the PCT requirements for novelty and inventive step.